

Join us for a **Lunch and Learn**

Bridging the Translational Gap: Organoid Models for Predictive Discovery and Development

Featured Speaker: M. Zulfiquer Hossain, Ph.D., Field Application Scientist

When: Friday October 16, 2026, 11:30am - 1:00pm

Where: BRB 7th Floor Conference Room

Description

Traditional 2D cultures and animal models often fail to capture human disease complexity, limiting preclinical-to-clinical translation. From spheroids to patient-derived (PDOs) and iPSC-derived systems, this session explores organoid models as physiologically relevant platforms for discovery, efficacy testing, and safety assessment. See how 3D architecture and tissue-specific signaling improve relevance across neural, lung, liver, and intestinal models, and how PDO panels were applied in the development of bispecific antibody petosemtamab to support target selection, compound prioritization, and co-clinical development.

Learn to:

- Differentiate among 2D cultures, spheroids, PDOs, and iPSC-derived organoids, including their principal strengths and limitations.
- Explain how three-dimensional architecture, cellular heterogeneity, and co-culture improve biological and translational relevance.
- Describe how organoid-based assays can inform target selection, efficacy testing, safety assessment, and co-clinical development to guide rigorous, reproducible, and patient-relevant strategic development decisions.

About the Speaker:

Dr. Hossain holds a B.S. in Biology and Biochemistry from Brandeis University and a Ph.D. in Molecular Medicine from the University of Maryland/NIH Graduate Partnerships Program. Following postdoctoral training at Johns Hopkins, he went on to serve as an Associate Professor at Brac University. As a Field Application Scientist with MilliporeSigma, he leads research application projects and technical seminars supporting advanced cellular modeling, epigenetic assays, immunoassays, and automation platforms.



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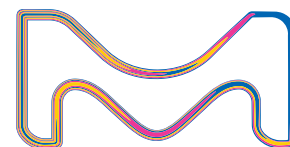
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